

Docket No. 99/122

WHAT IS CLAIMED IS:

Claim 1. A system for locating and tracking at least one rover unit from a mobile controller unit comprising;

a mobile controller unit comprising;

a radio communications module;
a radio positioning module;
a specially programmed computer;
a display;
a power source;

a rover unit comprising;

a cellular telephone module;
a GPS received module;
a specially programmed computer;

the controller unit being programmed to have a find feature which includes selection of a command to establish a radio communication link with the rover and to obtain the rover's position information from the radio positioning module in a suitable coordinate system and the controller unit being further programmed to calculate upon command the relative spatial position having the controller as center and absolute positions of the controller and the rover on a map whereupon the selected one of the relative spatial positions or the absolute map positions of the controller and the rover are displayed on the display.

Claim 2. A system for locating on demand a rover unit relative to a mobile controller unit comprising;

a mobile controller unit having a radio positioning receiver;
a radio communications module and a control system for sending instructions to a rover unit and for processing data received from a radio positioning module;

at least one rover unit having a GPS a radio communications receiver;
a control system for receiving instructions from a controller unit and for sending data to a controller unit whereby the controller may display position data of the rover and may display relative spatial position of the rover or absolute map position of the rover and the controller.

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Claim 3. A method for locating a rover unit from a mobile controller unit in which the rover unit and the controller unit have cellular telephones capable of inter-communication of data and each have a GPS receiver capable of providing its GPS position information, and the rover has a means for sending its GPS position information to the controller unit upon demand comprising;

opening a cellular telephone link between the controller and the rover;

starting a find procedure in which rover's GPS position information is sent to the controller;

comparing the rover's GPS position information which the controller's position information to calculate relative position quantities of the controller and the name selected;

displaying the relative position information on a display associated with the rover.